

[nd]

Gross Examination of Three Preparations of EQ 335 as Fleecworm Smears

Materials tested:

1. Davison Chemical Corporation # 3770
2. Davison Chemical Corporation # 3771
- 3 EQ 335 - Terrill's Lab prepared

Method used: The three smear preparations were diluted with water at the ratio of 1 part smear to 9 parts water (weight to volume) as prescribed by USDA, ARA, DEPQ publication # E-813 dated February 1951 and mixed according to directions.

Conclusion: The 1-hour check indicates that #3771 is the most satisfactory of the three materials tested. However, the 24-hour check indicates that EQ 335 is best ^{at this time} due to the fact that #3770 and #3771 creaming would not resuspend on shaking. The creaming in EQ 335 was very readily resuspended. The 5-day check also indicates that EQ 335 is at 5 days more readily usable because there is only a trace of creaming and it resuspends completely after 20 shakes. Nos 3770 and 3771 had creamed 3 and 4% respectively and it would not resuspend after 20 shakes.

Summary: If used immediately upon mixing as directed by E-813, Davison # 3771 appears to the best to use of the three materials based on gross examination. However EQ 335 appears to be superior if the materials are used ~~after~~ 24-hours after mixing or later because it readily resuspends.

THE DAVISON CHEMICAL CORPORATION

Progress through Chemistry

BALTIMORE 3, MD.

OUR ORDER S-52745-1

YOUR ORDER

CONTRACT

ACCOUNT
OFU.S. DEPT. OF AGRICULTURE
BOX 232
KERRVILLE, TEXAS

SHIP TO

49999 2
U.S. DEPT. OF AGRICULTURE
ATTN: MR. R. C. BUSHLAND
BOX 232
KERRVILLE, TEXAS
PARCEL POST

STATE

COUNTY

DESTINATION

ROUTE

DELIVERING CARRIER

CAR INITIAL

CAR NO.

FREIGHT * PREPAID

SALESMAN

INVOICE DATE	DATE SHIPPED	DELIVERY NO.	SHIPPED FROM	F. O. B.	TERMS
4/28/52	4/22/52		CB-1	DEL'D	

CONTAINER

NO.	KIND	SIZE	DESCRIPTION	QUANTITY	PRICE	AMOUNT
1	PLANT DISCRETION		SILICA GEL 00-08-00-201 SAMPLE #3686	4 OZ.	NO CHARGE	
	SAMPLE					
			1 CARTON			
			TOTAL WEIGHT (LBS.)			

I certify that the above bill is correct and just; that payment therefor has not been received; that all statutory requirements as to American production and labor standards, and all conditions of purchase applicable to the transactions have been complied with; and that State or local sales taxes are not included in the amounts billed."

(Print) THE DAVISON CHEMICAL CORPORATION

(Sign)

(Original)

(Type) DEPT. MANAGER (Only)

G. CLARK MILLS

INVOICE
NUMBER

WD

1593

MAKE ALL CHECKS PAYABLE TO THE DAVISON CHEMICAL CORPORATION
CLAIMS FOR LOSS OR DAMAGE MUST BE MADE IMMEDIATELY ON ARRIVAL OF GOODS

MAKE ALL CHECKS PAYABLE TO THE DAVISON CHEMICAL CORPORATION

INVOICE NUMBER

C. CLARK MILLS

(Check)
(Blank)

"I certify that the above bill is correct and that the goods described therein have been received and are in accordance with the invoice and the order thereon. The invoice and the order are hereby acknowledged and the goods are accepted as shown on the invoice and the order. The invoice and the order are hereby acknowledged and the goods are accepted as shown on the invoice and the order."

CONTAINER		DESCRIPTION		QUANTITY	PRICE	AMOUNT
NO.	TYPE	PLANT DISCRETION		4.00		NO CHARGE
		SILICA GEL 00-00-00-001 SAMPLE #3686				

INVOICE DATE	DATE SHIPPED	DELIVERY NO.	SHIPPED FROM	P. O. NO.	TERM
1/26/52	1/25/52		CB-1	DEL'D	

PREPAID

FREIGHT

SALESMAN

CAR NO.

CAR INITIAL

RECEIVING CARRIER

ROUTE

DESTINATION

PARCEL POST
KERRVILLE, TEXAS

ATTN: MR. R. C. BUSHLAND
U.S. DEPT. OF AGRICULTURE

KERRVILLE, TEXAS

U.S. DEPT. OF AGRICULTURE

OUR ORDER

8-52745-1

YOUR ORDER

CONTRACT

CONTRACT

BALTIMORE 3, MD.

THE DAVISON CHEMICAL CORPORATION

INVOICE COPY

THE DAVISON CHEMICAL CORPORATION

Progress through Chemistry

OUR ORDER

S-52745-1

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ATTN: MR. R. C. BUSHLAND
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KERRVILLE, TEXAS
PARCEL POST

STATE

COUNTY

DESTINATION

ROUTE

DELIVERING CARRIER

CAR INITIAL

CAR NO.

FREIGHT * **PREPAID**
SALESMAN

INVOICE DATE	DATE SHIPPED	DELIVERY NO.	SHIPPED FROM	F. O. B.	TERMS		
4/28/52	4/22/52		CB-1	DEL'D			
CONTAINER							
NO.	KIND	SIZE	DESCRIPTION		QUANTITY	PRICE	AMOUNT
	PLANT DISCRETION		SILICA GEL 00-08-00-201 SAMPLE #3686		4 OZ.	NO CHARGE	
	SAMPLE						
"I certify that the above bill is correct and true; that payment therefor has been received; that all statutory requirements as to American production and standards, and all conditions of purchase applicable to the transactions have been complied with; and that State or local sales taxes are not included in the amounts billed." (Type) THE DAVISON CHEMICAL CORPORATION (Sign) _____ (Type) DEPT. MANAGER (Sign) _____ 1 CARTON TOTAL WEIGHT (LBS.) G. CLARK MILLS INVOICE NUMBER							

MAKE ALL CHECKS PAYABLE TO THE DAVISON CHEMICAL CORPORATION
CLAIMS FOR LOSS OR DAMAGE MUST BE MADE IMMEDIATELY ON ARRIVAL OF GOODS

CLAIMS FOR LOSS OR DAMAGE MUST BE MADE IMMEDIATELY ON ARRIVAL OF GOODS
 MAKE ALL CHECKS PAYABLE TO THE DAVISON CHEMICAL CORPORATION

TOTAL WEIGHT (LBS.)

1 CARTON

G. CLARK MILLS

THE DAVISON CHEMICAL CORPORATION

"I certify that the above bill is correct and that the payment thereon has been made and that all necessary arrangements have been made for the transportation and delivery of the goods and that the same are being forwarded to the consignee of record."

QUANTITY	DESCRIPTION	PRICE	AMOUNT
4.00	SILICA GEL 00-08-00-201 SAMPLE #3000	NO CHARGE	

INVOICE DATE	DATE SHIPPED	DELIVERY NO.	SHIPPED FROM	CAR NO.	TERMS
1/28/52	1/28/52		CB-1	DEL'D	

PREPAID

BRIGHT
 CALLEMAN

STATE COUNTY

PARCEL POST
 KERRVILLE, TEXAS
 BOX 632
 ATTN: MR. R. C. BUSHLAND
 U.S. DEPT. OF AGRICULTURE
 4999 S

KERRVILLE, TEXAS
 BOX 632
 U.S. DEPT. OF AGRICULTURE

2-52745-1

THE DAVISON CHEMICAL CORPORATION

BALTIMORE 2, MD.

INVOICE COPY

(CARRIER) **PARCEL POST**

Shipper's No. (PRINTED ON B/L SET)

Agent's No.

FROM **THE DAVISON CHEMICAL CORP.**

4/22/19 52

DATE SHIPPED

CU. FT.	TEST	AV'D. WEIGHT			
		G.			
		T.			
		N.			

SHIPPING NOTICE

OUR ORDER

S-52745-1

YOUR ORDER

CONTRACT

ACCOUNT OF

**U.S. DEPT. OF AGRICULTURE
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SHIP TO

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U.S. DEPT. OF AGRICULTURE
ATTN: MR. R. C. BUSHLAND
BOX 232
KERRVILLE, TEXAS
PARCEL POST**

STATE

COUNTY

DESTINATION

ROUTE

DELIVERING CARRIER

CAR INITIAL

CAR NO.

FREIGHT

PREPAID

SALESMAN

INVOICE DATE	DATE SHIPPED	DELIVERY NO.	SHIPPED FROM	F. O. B.	TERMS

CONTAINER			DESCRIPTION	QUANTITY	PRICE	AMOUNT
NO.	KIND	SIZE				
1	PLANT DISCRETION		SILICA GEL 00-08-00-201 SAMPLE #3686	4 OZ.		
	SAMPLE					
			1 CARTON			
TOTAL WEIGHT (LBS.)					INVOICE NUMBER	

SHIPPER **THE DAVISON CHEMICAL CORP.**

SHIP **215 AT ONCE**

PLANT

PROD.

SPECIAL INSTRUCTIONS

IND

ZONE & SALES'M

CLASS

CONSUMER

AGENT

R. K. HODDINGTT, JR.

THE DAVISON CHEMICAL CORP. BALTIMORE 3, MD. SALES ORDER

U.S. DEPT. OF AGRICULTURE
OFFICE OF AGRICULTURAL
ATTORNEY, R. C. RUSLAND
NEWELL, TEXAS

U.S. DEPT. OF AGRICULTURE
OFFICE OF AGRICULTURAL
ATTORNEY, R. C. RUSLAND
NEWELL, TEXAS

ACKNOWLEDGMENT
RECEIVED
JAN 28 1954

INVOICE DATE: DATE SHIPPED: DELIVERY NO.: SHIPPED FROM: F.O.B.: DESTINATION: NC

QUANTITY: PRICE: AMOUNT: NC

INVOICE NUMBER: TOTAL WEIGHT (LBS.):

SHIPPER: THE DAVISON CHEMICAL CORP. BALTIMORE 3, MD.

CONSUMER: CONSUMER'S NAME AND ADDRESS

CLASS: CLASS OF PRODUCT

ZONE & SALESMAN: ZONE & SALESMAN

INSTRUCTIONS: INSTRUCTIONS

R. KENNING HODDINOTT, JR.

INDUSTRIAL CHEMICALS DEPARTMENT
THE DAVISON CHEMICAL CORPORATION
BALTIMORE 3, MARYLAND



PRODUCT DATA SHEET

DAVISON SILICA GEL

IMPALPABLE GRADES

I-1

Grade Code 63
 Mesh Size Thru 325
 Silica Content (Dry Basis) 99.5% Min.
 Total Volatile (Max.) 4.50 %
 Color White
 Apparent Density 30-35 #/cu. ft.

SCREEN ANALYSIS

On 80 mesh trace Max.
 T 325 99.7% Min.

GRADE 971 3-5 MICRONS IN DIAM. PH 7.0-8.0

CHEMICAL ANALYSIS

TYPICAL ANALYSIS (DRY BASIS)

Silica as SiO_2 99.71 %
 Iron as Fe_2O_3 03 %
 Aluminum as Al_2O_3 10 %
 Titanium as TiO_2 09 %
 Calcium as CaO 01 %
 Sodium as Na_2O 02 %
 Zirconium as ZrO_2 01 %
 Trace Elements03 %

CHEMICAL AND PHYSICAL PROPERTIES: Impalpable silica gels are inert chemically. Their inertness is comparable to other forms of silica. Impalpable silica gels consist of finely divided non-crystalline particles of sub-microporous structure that exhibit the property of adsorbing water and other condensable vapors without change in size or shape. Due to its structure and fine particle size it can be evenly distributed when mixed with other materials.

USES: Grade 63 Silica Gel is used in applications where an adsorptive form of pure white silica is desired, such as a free-flowing agent in pharmaceuticals, as a carrier for medicaments and as an ingredient in body dusting powders.

OTHER IMPALPABLE GRADES: Impalpable gels of particular characteristics have been developed for specific purposes. These are available on request.

SHIPPING CONTAINERS: Bulk quantities available in ½ pound, 3 pound and 15 pound air-tight metal containers.

IF YOU WANT FURTHER INFORMATION ON THIS DAVISON PRODUCT,
 WRITE US OUTLINING FACTS PERTAINING TO YOUR PROBLEM.

Headquarters for Davison Silica Gel for Laboratory Use

R. K. HODDINOTT, JR.



PROGRESS THROUGH CHEMISTRY

THE DAVISON CHEMICAL CORPORATION

BALTIMORE 3, MARYLAND

Low Density Silica - PD 244

A unique highly pure silica of extremely low density is now available. The white product is in porous form, having a bulk density of $7\frac{1}{2}$ lbs. per cubic foot and exhibiting a very high oil absorption. The purity of PD 244 is superior to competitive products. The ultimate particle size of the material is not known but in its present form shows a 2-3 micron average diameter. The silica is friable and has a large internal pore structure.

Following are typical chemical and physical characteristics of PD 244:

Color	White powder. Transparent in vehicles. 94 Hunter reflectometer.
Appearance	Uniform, impalpable, free flowing powder.
Density	7.5 lbs./cu. ft.
pH	7.2
Silica as SiO_2 (Dry Basis)	99.5%
Oil Absorption	240 lbs. oil/100 lbs. SiO_2
Surface Area (Nitrogen)	292 M^2 /gram
Particle Size Distribution	

	5% less than 1.1 microns
10	1.4
20	2.0
40	3.0
50	3.7
60	4.5
80	7.0

Variations of PD 244 can be made available as required for specialized uses. Substantial pilot quantities are now available and commercial lots can be furnished readily.

